

105-10-10210

Stream 105-10-21

Latitude  $56^{\circ}17'00''$  Longitude  $134^{\circ}04'30''$   
 $09''$   $42''$

Map: Port Alexander B-1

This stream is located .2 mile northwest of the Edna marker in Affleck Canal on Kuiu Island.

This stream has headwaters on several large mountains located on the narrow isthmus between Affleck Canal and Port Malmesbury. The stream is approximately 3 miles in length and drains a rather narrow valley.

There is excellent spawning habitat in the middle and upper intertidal area with the bottom substrates chiefly composed of small flat shales and angular gravels (Photo #53).



Photo #53: Intertidal area of Stream 105-10-21.

The stream is braided for the first .25 mile and displays clean loose  $\frac{1}{2}$ "-2" diameter gravel substrates that provide excellent spawning habitat. The numerous stream channels with large windfalls creating pools and cover provide good rearing habitat. The canopy is fairly open and consists primarily of alder. Photo #54 depicts the "typical" habitat in the lower .25 mile of the stream.



Photo #54: "Typical" habitat in lower stream section.

At .25 mile upstream the stream enters a restricted bedrock channel which provides little spawning habitat. There are a few small falls (less than 3-foot) and the channel is so restricted in places that upstream migration could be impeded during high discharge periods. The canyon walls are extremely steep and the canopy is sparse over the stream (Photo #55).

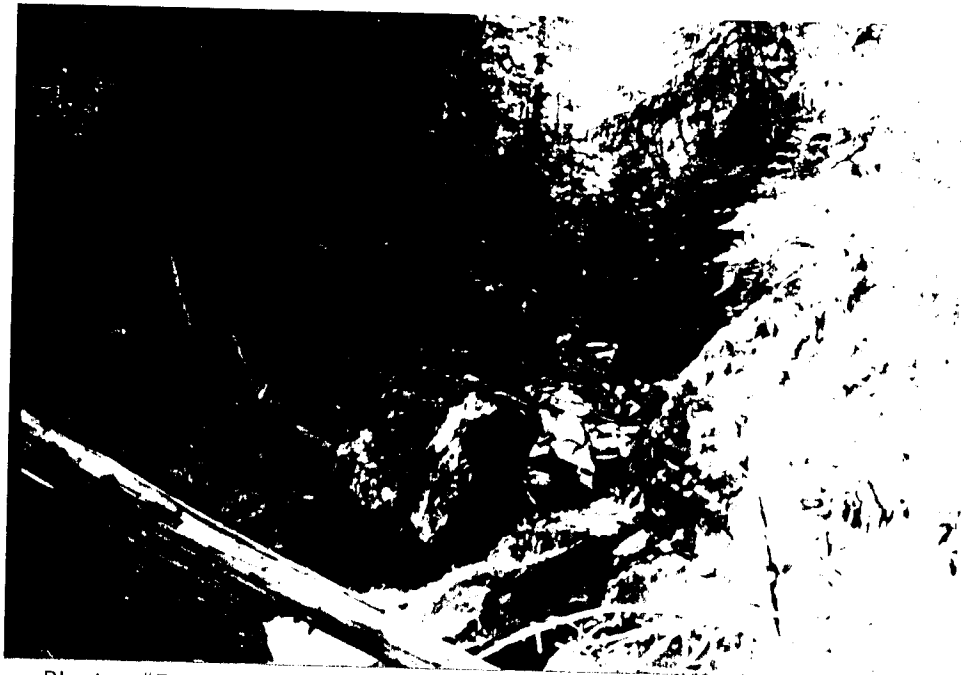


Photo #55: Stream 105-10-21 in bedrock canyon section.

Twenty-five adult chums and four adult pink salmon were observed in the lower .25 mile of the stream. A school of 100 chum and pink salmon were observed off the mouth. Numerous coho fry were present in the lower .25 mile but were not observed in the canyon.

ADF&G spawning escapement records reveal pink and chum salmon are the pre-dominant species.

ADF&G Spawning Escapement Data:

<u>Year</u>	<u>Pink</u>	<u>Chum</u>
1972	2300	1450
1973	2010	1100
1974	300	--
1975	--	--
1976	304	650

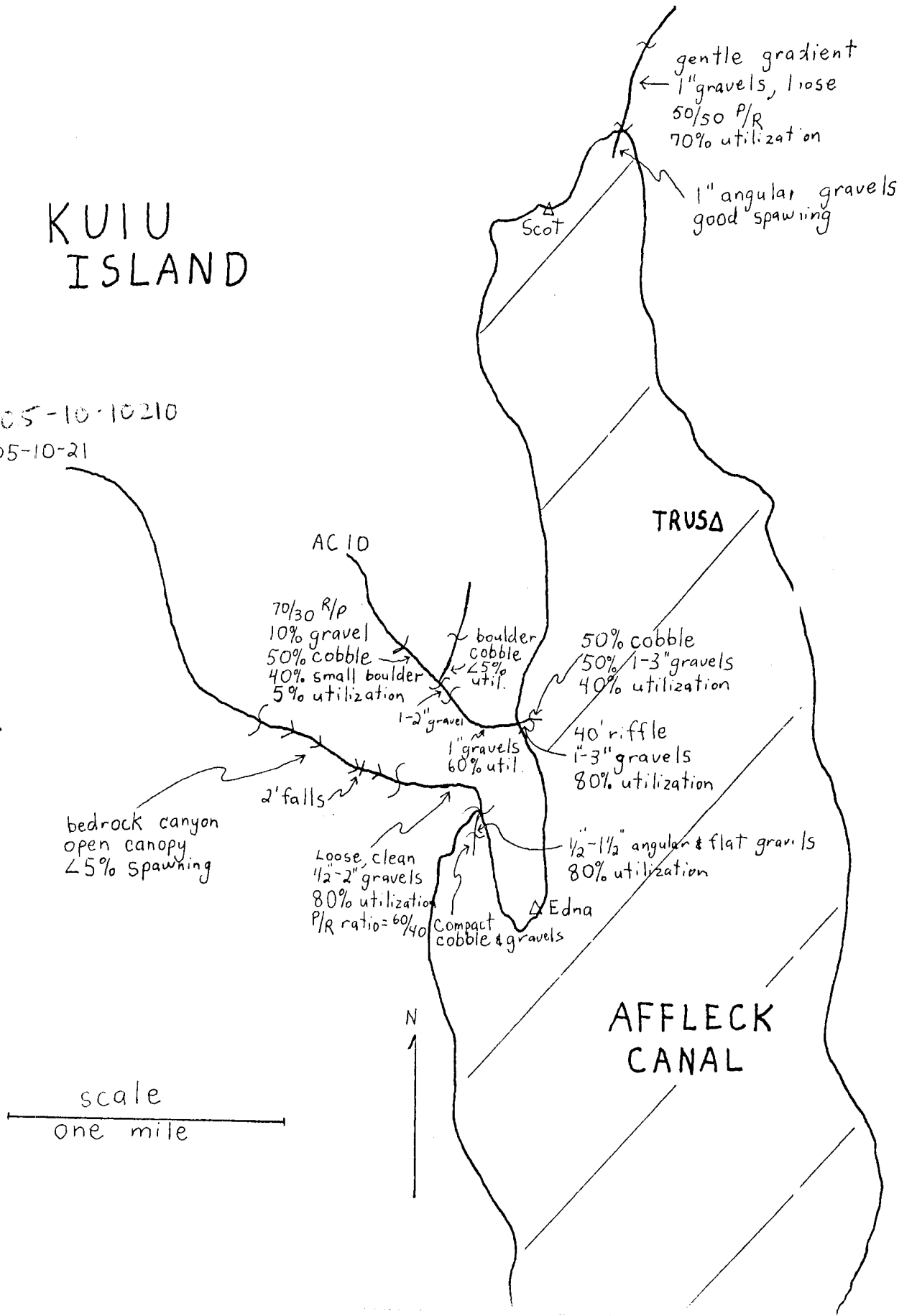
Recommendations;

- 1) An adequate windfirm vegetative buffer strip should be maintained in the braided section to protect unstable stream banks.

105-10-18

# KUIU ISLAND

105-10-10210  
105-10-21



STREAM HABITAT INVENTORY

AREA AND STREAM	TYPE AND DISTANCE OF SURVEY	FISH SPECIES AND MATURITY	STREAM QUALITY			STREAM		VELOCITY		WATER		MAJOR SUBSTRATE		
			Spawning Inter-tidal	Up-stream	Rearing	Gradient	Mean width (ft.)	Mean depth (ft.)	Inter-tidal	Upstream	Color	Temp. °C	Inter-tidal	Upstream
105-10-18	1/4 mile foot	cutthroat trout	good	good	excel-lent	gentle	15' channel 5' x 3"		4-cfs		lt. tan	11°	1" angular gravels	1" angular gravels
AC-10	.3 mile foot	trout, coho fry	good	good	excel-lent	gentle	15' channel 10' x 3"	3-4-cfs			clear	12.50	cobble 1" gravel	
105-10-21	1/2 mile foot	adult pink, chum, coho fry	excel-lent	excel-lent	good	gentle	30-60' in braided 10'-25' canyon 20' x 3"	15-cfs			clear	11°	1/2-1 1/2" flat angular and gravel	.5-2" flat angular gravel

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SUMNER  
STRAIT

Cape Decision